

US010004493B2

(12) United States Patent Stone et al.

(54) METHOD FOR IMPLANTING SOFT TISSUE

(71) Applicant: Biomet Sports Medicine, LLC,

Warsaw, IN (US)

(72) Inventors: **Kevin T. Stone**, Winona Lake, IN (US);

Jason D. Meridew, Warsaw, IN (US)

(73) Assignee: Biomet Sports Medicine, LLC,

Warsaw, IN (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 200 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 15/061,352

(22) Filed: Mar. 4, 2016

(65) Prior Publication Data

US 2016/0213369 A1 Jul. 28, 2016

Related U.S. Application Data

- (60) Continuation of application No. 14/211,977, filed on Mar. 14, 2014, now Pat. No. 9,486,211, which is a (Continued)
- (51) **Int. Cl.**A61B 17/04 (2006.01)

 A61F 2/08 (2006.01)

 (Continued)
- (52) U.S. Cl.
 CPC A61B 17/0482 (2013.01); A61B 17/0401
 (2013.01); A61B 17/06166 (2013.01);
 (Continued)

(10) Patent No.: US 10,004,493 B2

(45) **Date of Patent:** *Jun. 26, 2018

(58) Field of Classification Search

CPC A61F 2/0811; A61F 2002/0882; A61B 17/0401; A61B 17/0482;

(Continued)

(56) References Cited

U.S. PATENT DOCUMENTS

26,501 A 12/1859 Kendrick et al. 64,499 A 5/1867 Daubert (Continued)

FOREIGN PATENT DOCUMENTS

AU 4957264 A 3/1966 AU 440266 A1 10/1967 (Continued)

OTHER PUBLICATIONS

US 6,238,418, 05/2001, Schwartz (withdrawn) (Continued)

Primary Examiner — Son Dang (74) Attorney, Agent, or Firm — Schwegman Lundberg &

(57) ABSTRACT

Woessner, P.A.

A suture construction and method for forming a suture construction is disclosed. The construction utilizes a suture having an enlarged central body portion defining a longitudinal passage. First and second ends of the suture are passed through first and second apertures associated with the longitudinal passage to form a pair of loops. Portions of the suture lay parallel to each other within the suture. Application of tension onto the suture construction causes constriction of the longitudinal passage, thus preventing relative motions of the captured portions of the suture.

23 Claims, 11 Drawing Sheets

